

6006-2RZTN9/HC5C3WT



Hybrid deep groove ball bearing with seals on both sides

Hybrid single row deep groove ball bearings with seals on both sides have rings made of bearing steel and rolling elements made of bearing grade silicon nitride (Si₃N₄), which make the bearings electrically insulating. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. The silicon nitride elements not only provide protection from electric current damage but also, when compared to same-sized bearings with steel rolling elements, provide enhanced bearing performance, extended bearing service life, higher speed capability, high wear-resistance, high bearing stiffness, reduced risk of smearing and false brinelling, and less sensitivity to temperature gradients, making them suitable for use in difficult conditions and contaminated environments.

- Protected against electric current damage
- Integral sealing prolongs bearing service life
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	55 mm
Width	13 mm

Performance

Basic dynamic load rating	13.3 kN
Basic static load rating	8.3 kN
Limiting speed	16 000 r/min
Reference speed	30 000 r/min

Properties

Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Hybrid
Number of rows	1
Radial internal clearance	C3
Relubrication feature	Without

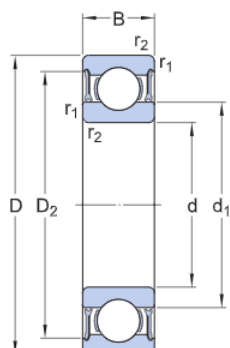
Sealing

Seal on both sides

Sealing type

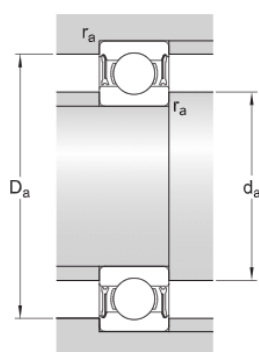
Non-contact

Technical Specification



Dimensions

d	30 mm	Bore diameter
D	55 mm	Outside diameter
B	13 mm	Width
d_1	≈ 38.2 mm	Shoulder diameter inner ring
D_2	≈ 49 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 34.6 mm	Abutment diameter shaft
d_a	max. 38.1 mm	Abutment diameter shaft
D_a	max. 50.4 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	13.3 kN
Basic static load rating	C_0	8.3 kN
Fatigue load limit	P_u	0.255 kN
Reference speed		30 000 r/min
Limiting speed		16 000 r/min
Calculation factor	k_f	0.025
Calculation factor	f_0	14.7

Mass

Mass bearing

0.11 kg

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